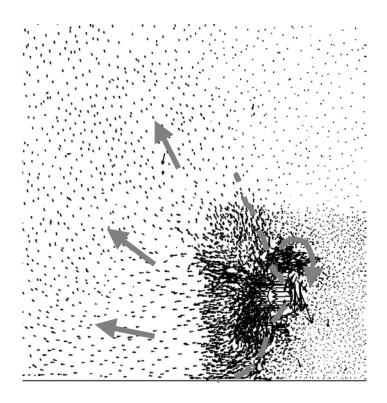


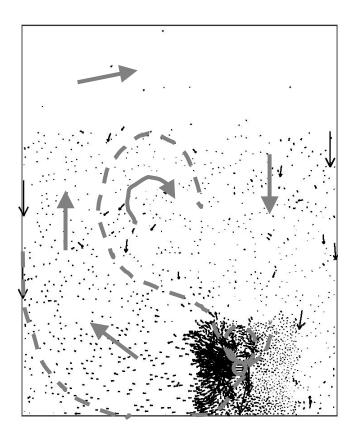
(a) Full-sized scale



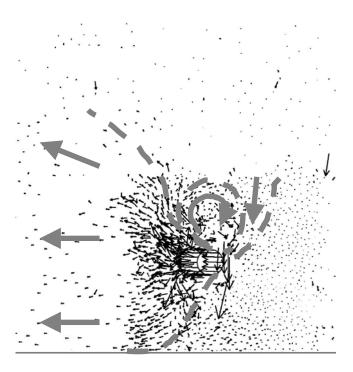
(b) Enlarged scale

Figure C-16 H/D = 22, Dense sand, $\tan \phi_{\mu} = 3.0$

C-17 07/05/05



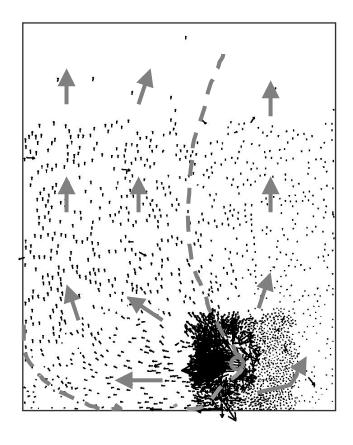
(a) Full-sized scale



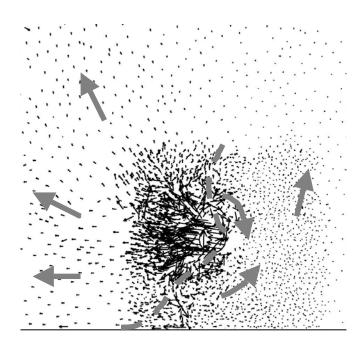
(b) Enlarged scale

Figure C-17 H/D = 25, Medium sand, tan $\phi_{\mu} = 3.0$

C-18 07/05/05



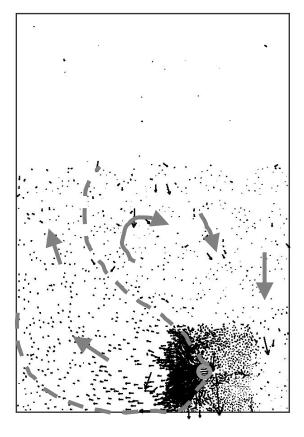
(a) Full-sized scale



(b) Enlarged scale

Figure C-18 H/D = 25, Dense sand, $\tan \phi_{\mu} = 3.0$

C-19 07/05/05



(a) Full-sized scale

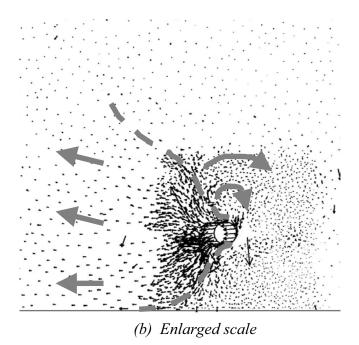
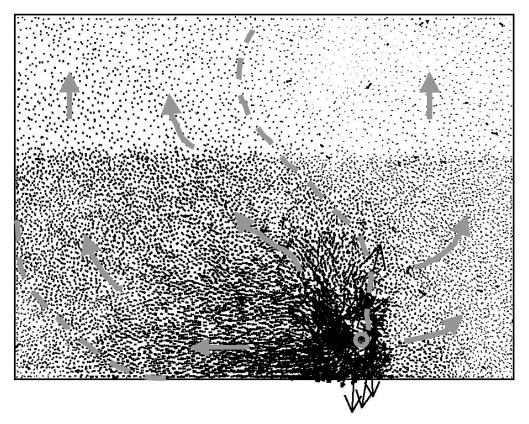
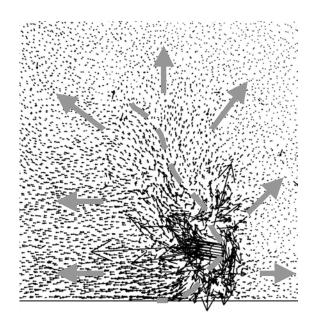


Figure C-19 H/D = 30, Medium sand, $\tan \phi_{\mu} = 3.0$

C-20 07/05/05



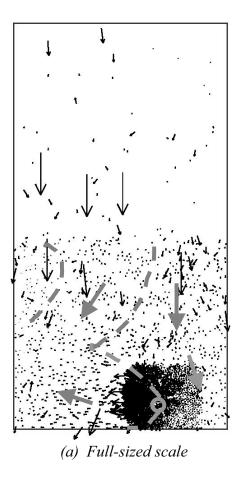
(a) Full-sized scale



(b) Enlarged scale

Figure C-20 H/D = 30, Dense sand, $\tan \phi_{\mu} = 3.0$

C-21 07/05/05



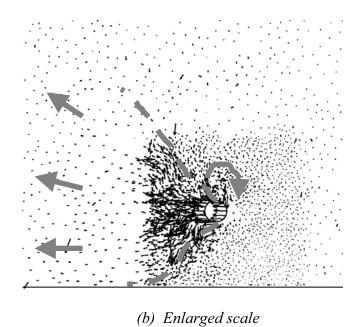
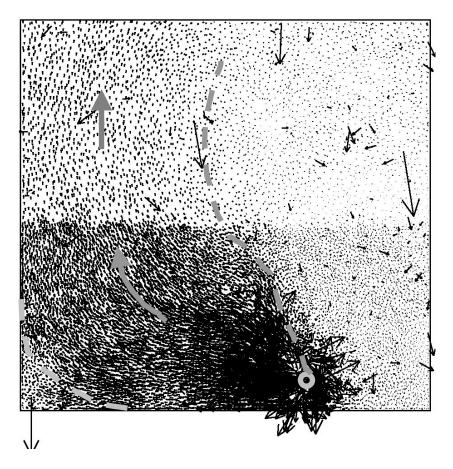


Figure C-21 H/D = 40, Medium sand, tan $\phi_{\mu} = 3.0$

C-22 07/05/05



(a) Full-sized scale

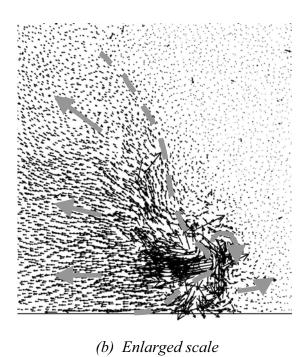
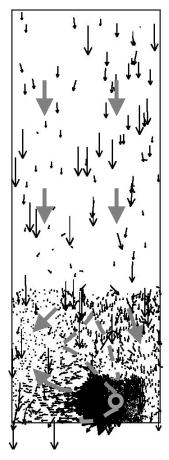
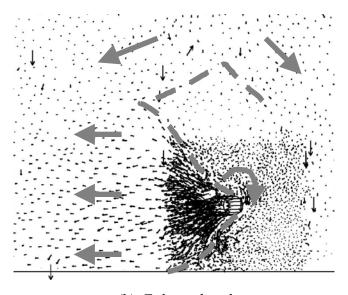


Figure C-22 H/D = 40, Dense sand, $\tan \phi_{\mu} = 3.0$

C-23 07/05/05



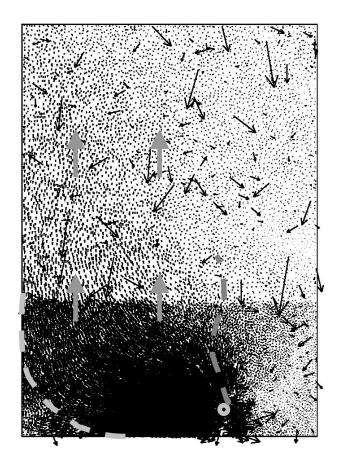
(a) Full-sized scale



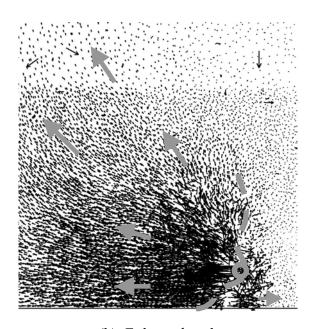
(b) Enlarged scale

Figure C-23 H/D = 60, Medium sand, tan $\phi_{\mu} = 3.0$

C-24 07/05/05



(a) Full-sized scale



(b) Enlarged scale

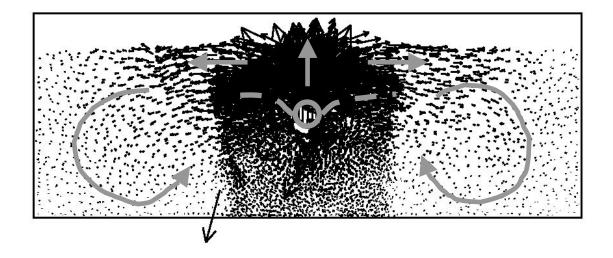
Figure C-24 H/D = 60, Dense sand, $\tan \phi_{\mu} = 3.0$

C-25 07/05/05

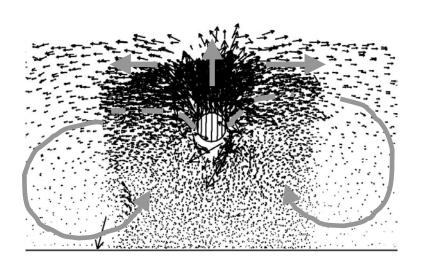
Appendix D

Displacement Pattern under Upward Loading (Velocity Vector)

D-1 07/05/05



(a) Full-sized scale



(b) Enlarged scale

Figure D-1 $H_c/D = 4$, Dense sand, $\tan \phi_{\mu} = 3.0$

D-2 07/05/05